

101.8 - Low Alloy Steels (disk and rod forms)

Steel and iron SRMs described here are furnished in various forms (disk, rod and chips) for optical emission and X-ray fluorescence spectrometric methods and for other methods of chemical analysis.

See also [Table 101.3](#) and [Table 101.5](#).

Nominal Sizes for Solid Steel SRMs:

600 Series: 3.2 mm diameter and 51 mm long.

1100 and 1200 Series: 31 mm diameter and 19 mm thick.

1700 Series: 34mm diameter and 19 mm thick.

A "C" preceding the SRM number indicates a chill cast sample; 31 mm diameter and 19 mm thick.

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SRM	Description	Unit of Issue	C	Mn	P	S	Si	As	Sn	Al (total)	B
662	AISI 94B17 Steel (Modified)	rods	0.163	1.05	0.044	0.037	0.4	0.092	0.016	0.095	0.0025
663	Chromium-Vanadium Steel (Modified)	5 rods	0.57	1.50	0.029	0.0055	0.74	0.010	(0.095)	0.024	0.0009
665	Electrolytic Iron	5 rods	0.008	0.0057	0.0025	0.0059	0.0080	(0.0002)		(0.0007)	0.00013 C
1134	LA Steel, High Silicon	disk	0.026	0.277	0.028	0.009	2.89		0.003	0.329	
1135	LA Steel, High Silicon	disk	0.027	0.094	0.006	0.026	3.19		0.004	0.0028	
1218	LA Steel, High Silicon	disk	0.0029	0.014	(0.002)	0.0011	(3.2)			0.005	
1224	LA Steel, Carbon (AISI 1078)	disk	0.75	0.41	0.009	0.039	0.173			0.060	
1225	LA Steel (AISI 4130)	disk	0.274	0.48	0.007	0.014	0.221				
1226	LA Steel	disk	0.085	0.274	0.0022	0.0044	0.231		(0.003)	0.054	
1227	LA Steel, Basic Open Hearth, 1% C	disk	0.97	0.402	0.014	0.026	0.215			(0.028)	
1228	LA Steel, 0.1% C	disk	0.072	0.365	0.004	0.018	0.007			0.061	
1254	LA Steel (Ca only)	disk	Ca 0.0053								
1262b	LA Steel (AISI 94B17)	disk	0.160	1.05	0.044	0.037	0.40	0.096	0.016	0.081	0.0025
1264a	LA Steel, High Carbon (mod.)	disk	0.871	0.258	0.010	0.025	0.066	0.052	(0.008)	(0.0080)	(0.011)
1265a	Electrolytic Iron	disk	0.0067	0.0057	0.0011	0.0055	0.0080	(0.0002)		(0.0007)	0.00013 C
1269	Line Pipe (AISI 1526 mod.)	disk	0.298	1.35	0.012	0.0061	0.189	(0.006)	(0.039)	0.016	()
1270	LA Steel, Cr-Mo (A336) (F-22)	disk	0.077	0.626	0.0065	0.0065	0.247	(0.02)	(0.02)	(0.005)	(0.0033)
1271	LA Steel (HSLA-100)	disk	0.064	0.73	0.005	0.0013	0.334			0.020	
1286	Low Alloy Steel (HY 80)	disk	0.196	0.152	0.008	0.017	0.130	0.019	0.012	0.109	(0.006)
1761a	Low Alloy Steel	disk	1.05	0.679	0.042	0.037	0.182	0.011	0.050	0.055	0.0023
SRM>	Description	Unit of Issue	C	Mn	P	S	Si	As	Sn	Al (total)	B
1762a	Low Alloy Steel	disk	0.341	1.99	0.0346	0.0295	0.351	0.0173	0.0479	0.0706	0.0042
1763a	Low Alloy Steel	disk	0.202	1.58	0.012	0.022	0.63	0.055	0.011	0.043	0.0054
1764a	Low Alloy Steel	disk	0.592	1.193	0.0210	0.0118	0.0595	0.0100	0.024	0.0098	0.0010
1765	Low Alloy Steel	disk	0.006	0.144	0.0052	0.0038	(0.004)	0.0010	0.002	(0.006)	0.0009
1766	Low Alloy Steel	disk	0.015	0.067	0.002	0.0024	0.010	0.0035	0.0010	0.012	0.00012
1767	Low Alloy Steel	disk	0.052	0.022	0.0031	0.0090	0.026	0.0005	0.006	0.004	0.0010
1768	High-Purity Iron	disk	0.0010	0.0014	0.0013	0.0003	()	()	()	0.0024	()
C1221	LA Carbon (AISI 1211)	disk	0.020	0.102	0.090	0.112	0.876			0.111	
C1285	LA Steel (A242) (mod.)	disk	0.058	0.332	0.072	0.020	0.36	(0.022)	0.35	(0.12)	

Values in parentheses are given for information only.

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*Values is in mg/kg.

101.8 - Low Alloy Steels (disk and rod forms)

Steel and iron SRMs described here are furnished in various forms (disk, rod and chips) for optical emission and X-ray fluorescence spectrometric methods and for other methods of chemical analysis.

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Nominal Sizes for Solid Steel SRMs:

600 Series: 3.2 mm diameter and 51 mm long.

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Pb

0.0043

0.0022

0.00015

(0.0001)

0.0004

0.024

0.000015

0.005

(0.0016)

(0.0002)

Pb

(0.0001)

0.0003

0.003

(0.0001)

(

(0.0001)

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SRM	Description	Unit of Issue	Ag	Ge	O	N	H	Nb	Se	Ta	Zr
662	AISI 94B17 Steel (Modified)	rods	(0.0010)	[0.002]	(0.0011)	(0.0041)	[0.30	[0.001]	0.21	0.20
663	Chromium-Vanadium Steel (Modified)	5 rods	(0.0038)	[0.010]	(0.0007)	(0.0041)	[	0.049	[0.0001]	(0.053)	0.050
665	Electrolytic Iron	5 rods									
1134	LA Steel, High Silicon	disk									
1135	LA Steel, High Silicon	disk									
1218	LA Steel, High Silicon	disk									(0.002)
1224	LA Steel, Carbon (AISI 1078)	disk									
1225	LA Steel (AISI 4130)	disk									
1226	LA Steel	disk						(0.005)			(0.010)
1227	LA Steel, Basic Open Hearth, 1% C	disk									(0.0006)
1228	LA Steel, 0.1% C	disk									
1254	LA Steel (Ca only)	disk									
1262b	LA Steel (AISI 94B17)	disk	0.0011	[0.002]	(0.0011)	(0.0040)	(	0.30	(0.0012)	0.20	0.22
1264a	LA Steel, High Carbon (mod.)	disk	(0.000002)	[0.003]	(0.0010)	(0.0032)	(	0.157	(0.00021)	0.11	0.069
1265a	Electrolytic Iron	disk									
1269	Line Pipe (AISI 1526 mod.)	disk	(0.0002)								
1270	LA Steel, Cr-Mo (A336) (F-22)	disk	(0.0001)								
1271	LA Steel (HSLA-100)	disk						0.025			
1286	Low Alloy Steel (HY 80)	disk						(0.012)			(0.021)
1761a	Low Alloy Steel	disk				0.0042		0.021		0.050	0.012
SRM>	Description	Unit of Issue	Ag	Ge	O	N	H	Nb	Se	Ta	Zr
1762a	Low Alloy Steel	disk				(0.002)		0.0692		0.0203	0.0285
1763a	Low Alloy Steel	disk				0.0044		0.10		0.01	0.04
1764a	Low Alloy Steel	disk				0.0023		0.0416		0.0297	0.0012
1765	Low Alloy Steel	disk	0.0002			0.0010		0.0004	(0.0035)	(0.004)	(0.0002)
1766	Low Alloy Steel	disk	0.0005			0.0033		0.005	(0.0035)	(0.006)	(0.0004)
1767	Low Alloy Steel	disk	0.0008			0.0008		0.010		(0.002)	(0.004)
1768	High-Purity Iron	disk			0.036	0.002	Cd (((((
C1221	LA Carbon (AISI 1211)	disk									(0.0017)
C1285	LA Steel (A242) (mod.)	disk									(0.02)

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Cu

0.51

0.098

0.0058

0.070

0.056

0.003

0.072

0.125

0.006

0.012

0.51

0.250

0.0058

0.095

0.114

1.48

0.043

0.298

Cu

0.1186

0.043

0.5178

0.0013

0.015

0.0014

0.0006

0.041

0.37

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SRM	Description	Unit of Issue	Ni	Cr	V	Mo	W	Co	Ti	Au	Ce
662	AISI 94B17 Steel (Modified)	rods	0.60	0.30	0.041	0.070	0.21	0.30	0.084	((0.0011)
663	Chromium-Vanadium Steel (Modified)	5 rods	0.32	1.31	0.31	0.30	0.046	0.048	0.050	0.0005	(0.0016)
665	Electrolytic Iron	5 rods	0.041	0.0072	0.0006	0.0050		0.0070	0.0006		
1134	LA Steel, High Silicon	disk	0.038	0.019		0.008					
1135	LA Steel, High Silicon	disk	0.050	0.022		0.014					
1218	LA Steel, High Silicon	disk	(0.002)	0.006	(	(0.003)		(0.002)	(0.004)		
1224	LA Steel, Carbon (AISI 1078)	disk	0.054	0.071	0.002	0.013					
1225	LA Steel (AISI 4130)	disk	0.018	0.91	0.004	0.166					
1226	LA Steel	disk	5.42	0.467	0.0018	0.446	(0.005)	0.029	0.0021		
1227	LA Steel, Basic Open Hearth, 1% C	disk	0.007	0.019	0.002	0.003		(0.0008)			
1228	LA Steel, 0.1% C	disk	0.018	0.016		0.009					
1254	LA Steel (Ca only)	disk									
1262b	LA Steel (AISI 94B17)	disk	0.59	0.30	0.041	0.070	0.020	0.57	0.100	(0.00005)	0.0019
1264a	LA Steel, High Carbon (mod.)	disk	0.142	0.066	0.106	0.49	0.102	0.15	0.24	0.0001	0.00022
1265a	Electrolytic Iron	disk	0.041	0.0072	0.0006	0.0050		0.0070	(0.0001)		
1269	Line Pipe (AISI 1526 mod.)	disk	0.108	0.201	0.004	0.036	(0.001)	(0.014)	(0.009)		
1270	LA Steel, Cr-Mo (A336) (F-22)	disk	0.174	2.34	0.013	0.956	(0.003)	0.038	(0.003)		
1271	LA Steel (HSLA-100)	disk	3.34	0.552	0.003	0.543					
1286	Low Alloy Steel (HY 80)	disk	2.81	1.53	0.0057	0.334	(0.13)	0.116	0.040		
1761a	Low Alloy Steel	disk	1.981	0.222	0.054	0.103	(0.02)	0.027	0.173		
SRM>	Description	Unit of Issue	Ni	Cr	V	Mo	W	Co	Ti	Au	Ce
1762a	Low Alloy Steel	disk	1.156	0.923	0.2010	0.353		0.0616	0.0952		
1763a	Low Alloy Steel	disk	0.51	0.50	0.30	0.50	(0.03)	0.095	0.31		
1764a	Low Alloy Steel	disk	0.2006	1.468	0.1063	0.2007	(0.0016)	0.012	0.0286		
1765	Low Alloy Steel	disk	0.154	0.051	0.0040	0.005		0.0012	0.0055		
1766	Low Alloy Steel	disk	0.021	0.024	0.009	0.0035	(0.001)	0.0020	0.0005		(0.002)
1767	Low Alloy Steel	disk	0.002	0.0015	0.033	0.020		0.0050	0.011		
1768	High-Purity Iron	disk	0.0014	(	(	(	(	0.0025	(
C1221	LA Carbon (AISI 1211)	disk	0.067	0.049	(0.0007)	0.038		(0.010)	(0.0014)		
C1285	LA Steel (A242) (mod.)	disk	1.17	0.80	0.150	0.164	(0.03)	0.036	Ce (0.0021)		

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Hf

[0.006]

[0.0015]



Hf



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SRM	Description	Unit of Issue	La	Nd	Pr	Fe	Sb	Bi	Ca	Mg	Te	Zn
662	AISI 94B17 Steel (Modified)	rods	0.0004	(0.0005)	(0.00012)	(95.3)	0.012	(0.002)	(0.0002)	(0.0006)	(0.0005)	(0.0005)
663	Chromium-Vanadium Steel (Modified)	5 rods	0.0006	(0.0007)	(0.00018)	(94.4)	0.002	(0.0008)	(	(0.0005)	(0.0022)	(0.0004)
665	Electrolytic Iron	5 rods				99.9						
1134	LA Steel, High Silicon	disk										
1135	LA Steel, High Silicon	disk										
1218	LA Steel, High Silicon	disk										
1224	LA Steel, Carbon (AISI 1078)	disk										
1225	LA Steel (AISI 4130)	disk										
1226	LA Steel	disk										
1227	LA Steel, Basic Open Hearth, 1% C	disk										
1228	LA Steel, 0.1% C	disk										
1254	LA Steel (Ca only)	disk										
1262b	LA Steel (AISI 94B17)	disk	(0.0004)	0.0006	(0.00012)	(95.3)	0.012	(0.002)	(0.0001)	0.0006	(0.001)	
1264a	LA Steel, High Carbon (mod.)	disk	0.00007	0.00007	(0.00003)	(96.7)	0.034	(0.0009)	0.00004	0.00015	0.00018	[0.001]
1265a	Electrolytic Iron	disk				99.9						
1269	Line Pipe (AISI 1526 mod.)	disk										
1270	LA Steel, Cr-Mo (A336) (F-22)	disk										
1271	LA Steel (HSLA-100)	disk										
1286	Low Alloy Steel (HY 80)	disk										
1761a	Low Alloy Steel	disk				(95.0)	0.0052					

SRM>	Description	Unit of Issue	La	Nd	Pr	Fe	Sb	Bi	Ca	Mg	Te	Zn
1762a	Low Alloy Steel	disk				(94.2)						
1763a	Low Alloy Steel	disk										
1764a	Low Alloy Steel	disk				(95.1)						
1765	Low Alloy Steel	disk				0.0010	(	(	(	(	(0.003)	
1766	Low Alloy Steel	disk				0.0005	(	(	(	(	(0.003)	
1767	Low Alloy Steel	disk					(	(0.0003)	(	(	(0.0003)	
1768	High-Purity Iron	disk				((((((
C1221	LA Carbon (AISI 1211)	disk										
C1285	LA Steel (A242) (mod.)	disk				(0.04)						

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